

01425000 WEST BRANCH DELAWARE RIVER AT STILESVILLE, NY

LOCATION.--Lat 42°04'29", long 75°23'47", Delaware County, Hydrologic Unit 02040101, on right bank at Stilesville, 0.5 mi upstream from Cold Spring Creek, 1.4 mi downstream from Cannonsville Dam, and 2.0 mi northeast of Deposit. Water-quality sampling site at discharge station.

DRAINAGE AREA.--456 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1952 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 992.23 ft above NGVD of 1929 (levels by Board of Water Supply, City of New York). Prior to Oct. 1, 1964, at site 600 ft downstream at datum 1.37 ft higher.

REMARKS.--Records fair except those below 100 ft³/s and those for estimated daily discharges, which are poor. Subsequent to October 1963, entire flow from 454 mi² of drainage area controlled by Cannonsville Reservoir (see Reservoirs in Delaware River Basin). Part of flow diverted for New York City municipal supply (see Reservoirs in Delaware River Basin). Remainder of flow (except for conservation releases and spill) impounded for release during period of low flow in the lower Delaware River basin, as directed by the Delaware River Master.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge prior to construction of Cannonsville Reservoir, 17,500 ft³/s, Jan. 22, 1959, gage height, 9.01 ft, site and datum then in use; maximum discharge since construction of Cannonsville Reservoir, 17,800 ft³/s, Mar. 16, 1986, gage height, 13.07 ft; minimum discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 11,400 ft³/s, Sept. 19, gage height, 11.83 ft; minimum discharge, 55 ft³/s, Jan. 27, gage height, 4.48 ft.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,490	3,620	2,080	1,750	e94	179	1,660	1,080	972	356	72	376
2	1,320	2,900	1,950	1,490	e103	166	1,640	1,030	991	676	84	427
3	962	2,400	1,760	1,410	e96	128	1,560	1,330	1,030	726	154	409
4	885	2,030	1,540	1,660	e103	89	1,460	1,450	1,060	811	209	344
5	949	1,770	1,390	1,940	e96	61	1,310	1,400	962	589	215	302
6	910	1,660	1,290	2,040	90	74	1,190	1,370	886	621	136	287
7	843	1,470	1,180	1,860	125	1,900	1,090	1,300	778	436	109	238
8	888	1,280	1,070	1,660	123	3,150	1,020	1,190	662	308	113	223
9	895	1,140	984	1,480	120	3,120	936	1,080	592	793	125	573
10	862	1,020	912	1,190	123	2,670	848	1,030	385	688	126	1,380
11	809	947	1,290	1,020	132	2,290	790	1,100	335	438	130	1,310
12	743	960	3,010	976	137	2,000	712	1,080	275	366	138	906
13	673	966	3,190	1,000	137	1,710	777	1,090	200	303	116	693
14	615	1,000	2,810	936	138	1,480	1,060	982	154	307	75	565
15	852	969	2,490	801	147	1,290	1,230	903	153	306	68	471
16	1,120	921	2,130	548	152	1,200	1,210	887	174	305	68	428
17	1,100	897	1,890	383	159	1,120	1,160	951	208	304	68	399
18	1,030	899	2,020	317	161	1,050	1,110	918	471	305	81	4,640
19	1,020	959	1,960	272	164	936	1,100	697	215	304	150	10,600
20	1,040	2,860	1,750	227	170	860	1,100	485	216	390	289	7,060
21	984	4,450	1,530	193	191	923	1,030	419	188	605	555	4,420
22	930	3,960	1,370	158	221	936	956	392	188	557	753	3,530
23	873	3,210	1,280	131	193	885	931	396	198	385	865	2,830
24	838	2,620	1,860	113	148	836	932	428	227	309	941	3,280
25	777	2,310	4,880	86	142	872	887	415	192	309	971	2,420
26	724	2,050	4,970	66	147	989	985	371	392	311	768	2,020
27	977	1,770	4,000	56	163	1,230	1,220	581	188	222	661	1,440
28	2,150	1,590	3,150	76	164	1,690	1,240	1,250	189	90	591	1,050
29	3,220	1,930	2,650	100	175	1,880	1,200	1,410	480	77	575	2,160
30	5,350	2,170	2,180	80	---	1,840	1,150	1,230	351	72	345	2,500
31	4,720	---	1,960	e90	---	1,730	---	1,060	---	72	230	---
TOTAL	40,549	56,728	66,526	24,109	4,114	39,284	33,494	29,305	13,312	12,341	9,781	57,281
MEAN	1,308	1,891	2,146	778	142	1,267	1,116	945	444	398	316	1,909
MAX	5,350	4,450	4,970	2,040	221	3,150	1,660	1,450	1,060	811	971	10,600
MIN	615	897	912	56	90	61	712	371	153	72	68	223

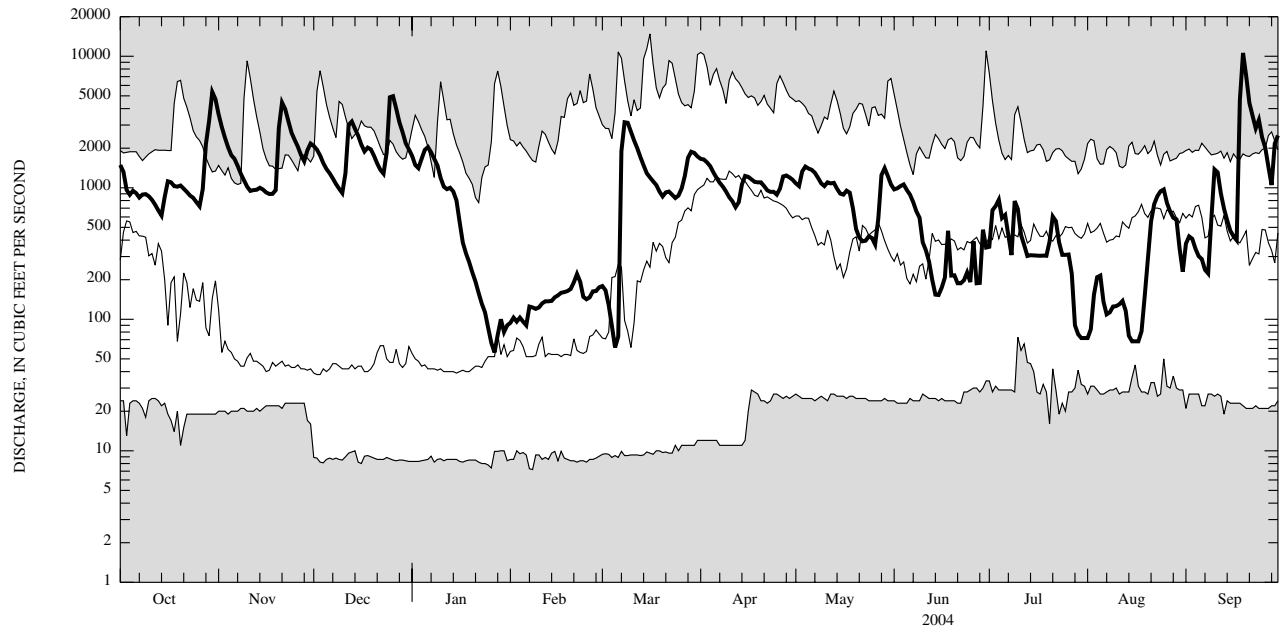
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2004, BY WATER YEAR (WY)

	523	314	365	314	389	839	1,237	710	522	611	622	591
MEAN	523	314	365	314	389	839	1,237	710	522	611	622	591
MAX	1,593	1,971	2,644	1,910	2,309	2,879	4,389	1,883	1,593	1,646	1,675	1,909
(WY)	(1970)	(1997)	(1997)	(1978)	(1976)	(1986)	(1993)	(1996)	(1968)	(1971)	(1968)	(2004)
MIN	26.2	21.5	9.10	9.25	9.89	11.1	19.7	25.2	72.7	63.9	92.3	34.0
(WY)	(1964)	(1966)	(1966)	(2002)	(1967)	(1989)	(1985)	(1966)	(1965)	(1965)	(1985)	(1964)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1964 - 2004	
ANNUAL TOTAL	409,499		386,824		587	
ANNUAL MEAN	1,122		1,057		1,057	
HIGHEST ANNUAL MEAN					87.3	
LOWEST ANNUAL MEAN					14,800	
HIGHEST DAILY MEAN	9,270	Mar 22	10,600	Sep 19	14,800	Mar 16, 1986
LOWEST DAILY MEAN	57	Jan 13	56	Jan 27	7.2	Feb 8, 1966
ANNUAL SEVEN-DAY MINIMUM	58	Jan 9	79	Jan 25	8.1	Jan 20, 1966
10 PERCENT EXCEEDS	2,360		2,160		1,450	
50 PERCENT EXCEEDS	812		892		320	
90 PERCENT EXCEEDS	236		126		23	

e Estimated



CURRENT WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
 SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.

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WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1963 to current year.

CHEMICAL DATA: 1959-60 (a) unpublished, 1969 (a), 1970 (a) unpublished, 1971, 1973 (b), 1974 (d), 1975 (b).

MINOR ELEMENTS DATA: 1971 (b).

NUTRIENT DATA: 1970 (a) unpublished, 1971, 1973 (b), 1974 (d), 1975 (b).

BIOLOGICAL DATA: Bacteria--1973 (b), 1974 (d), 1975 (b).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: October 1962 to current year.

INSTRUMENTATION.--Water-temperature recorder provides 15-minute-interval readings. From October 1975 to February 1993, water-temperature recorder provided one-hour-interval readings. Prior to October 1975, water-temperature recorder provided continuous recordings.

REMARKS.--Water temperature is affected by release of water from upstream reservoir. Interruptions of record were due to malfunction of recording instrument.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURES: Maximum (water years 1963-78, 1980-82, 1984-86, 1988, 1990-92, 1994-95, 1997, 1999-2002, 2004), 30.5°C, July 2, 1963; minimum (water years 1963-95, 1998-2003), 0.0°C on many days during winter periods, except 1969, 1973, 1986-87, 1990--91, 1994-95, 2001.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURES: Maximum, 21.0°C, Sept. 18; minimum recorded, 0.5°C on several days during winter period, but may have been lower during period of instrument malfunction.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	12.0	11.5	12.0	7.5	7.0	7.5	---	---	---
2	---	---	---	12.0	12.0	12.0	7.5	6.5	7.0	---	---	---
3	---	---	---	12.5	12.0	12.0	7.0	6.5	7.0	---	---	---
4	---	---	---	12.5	12.0	12.0	7.0	6.5	6.5	---	---	---
5	---	---	---	12.0	12.0	12.0	7.0	6.5	6.5	---	---	---
6	---	---	---	12.0	11.5	12.0	6.5	6.0	6.5	---	---	---
7	16.0	14.5	15.0	12.0	11.0	11.5	6.0	6.0	6.0	---	---	---
8	16.5	15.0	15.5	11.0	10.5	10.5	6.5	5.5	6.0	---	---	---
9	17.0	15.0	16.0	10.5	10.0	10.0	6.5	6.0	6.0	---	---	---
10	17.0	15.5	16.0	10.5	9.5	10.0	6.5	6.0	6.5	---	---	---
11	17.5	15.5	16.5	10.0	9.5	9.5	7.0	6.0	6.5	---	---	---
12	17.0	15.5	16.0	10.5	10.0	10.0	6.5	6.0	6.0	---	---	---
13	17.0	15.5	16.0	10.5	6.5	9.0	6.0	6.0	6.0	---	---	---
14	16.0	15.0	15.5	8.0	6.5	7.5	6.0	5.5	5.5	---	---	---
15	15.5	11.5	14.0	8.5	8.0	8.0	5.5	5.5	5.5	---	---	---
16	14.5	12.5	14.0	8.5	8.0	8.5	6.0	5.5	5.5	---	---	---
17	14.0	13.5	13.5	9.0	8.5	8.5	5.5	5.5	5.5	---	---	---
18	14.0	13.5	13.5	9.0	9.0	9.0	---	---	---	---	---	---
19	13.5	13.0	13.5	9.5	9.0	9.5	---	---	---	---	---	---
20	14.0	13.0	13.5	9.0	8.5	9.0	---	---	---	---	---	---
21	14.0	13.0	13.5	9.0	8.5	9.0	---	---	---	---	---	---
22	13.0	12.5	13.0	9.0	8.5	9.0	---	---	---	---	0.5	---
23	12.5	12.0	12.0	9.0	8.5	8.5	---	---	---	1.0	0.5	0.5
24	12.5	11.5	12.0	9.0	8.5	8.5	---	---	---	1.5	0.5	1.0
25	13.0	11.5	12.0	8.5	8.0	8.5	---	---	---	1.5	0.5	1.0
26	13.0	12.0	12.5	8.5	8.0	8.0	---	---	---	1.5	1.0	1.0
27	12.5	12.0	12.5	8.5	8.0	8.0	---	---	---	2.5	0.5	1.5
28	12.5	12.0	12.0	8.5	8.5	8.5	---	---	---	2.5	0.5	2.0
29	12.0	12.0	12.0	8.5	7.0	7.5	---	---	---	2.5	1.0	1.5
30	12.0	11.5	12.0	8.0	7.5	7.5	---	---	---	3.0	1.0	2.0
31	12.0	11.5	12.0	---	---	---	---	---	---	2.5	1.5	2.0
MONTH	---	---	---	12.5	6.5	9.5	---	---	---	---	---	---

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TEMPERATURE, WATER, DEGREES CELSIUS—CONTINUED
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	3.0	2.0	2.5	6.0	3.0	4.0	3.5	3.0	3.0	10.5	6.5	8.5
2	4.5	2.5	3.0	6.0	3.5	4.5	3.5	3.0	3.0	10.0	7.5	9.0
3	3.0	2.0	2.5	5.5	3.5	4.5	3.5	3.0	3.5	10.5	8.0	9.0
4	4.0	2.0	3.0	5.0	3.5	4.0	3.5	3.0	3.0	9.5	8.0	9.0
5	3.5	2.0	2.5	4.5	3.5	4.0	3.5	2.5	3.0	9.5	8.0	9.0
6	3.5	1.5	2.5	5.5	1.0	4.0	4.0	2.5	3.0	10.5	9.0	9.5
7	3.5	2.0	3.0	2.5	1.0	2.0	4.0	3.0	3.5	11.0	9.0	10.0
8	3.5	1.5	2.5	2.5	2.5	2.5	4.0	3.0	3.5	11.0	9.5	10.5
9	4.0	2.0	3.0	2.5	2.0	2.5	4.5	3.0	3.5	11.5	10.0	11.0
10	4.5	3.0	3.5	3.0	2.0	2.5	4.5	3.0	3.5	12.0	10.0	11.0
11	3.5	2.5	3.0	3.0	2.0	2.5	4.5	3.0	3.5	12.5	10.5	11.5
12	4.5	2.0	3.0	2.5	2.0	2.5	4.5	3.5	4.0	14.0	11.5	13.0
13	5.0	3.0	3.5	2.5	2.0	2.0	4.0	3.5	4.0	16.0	14.0	15.0
14	4.5	2.5	3.0	2.5	2.0	2.0	4.0	3.5	4.0	18.5	13.5	16.0
15	4.0	2.0	3.0	3.0	2.0	2.5	5.0	3.5	4.0	17.0	11.0	14.5
16	4.0	2.0	2.5	2.5	2.0	2.0	5.5	3.5	4.0	16.0	13.5	15.0
17	4.0	2.0	3.0	2.5	2.0	2.5	5.5	4.0	4.5	17.5	14.0	15.0
18	5.0	2.5	3.5	2.5	2.0	2.0	5.5	4.0	5.0	14.0	10.5	13.0
19	3.5	2.5	3.0	3.0	2.0	2.0	6.0	4.5	5.0	14.5	11.0	13.0
20	4.5	3.0	3.5	3.0	1.5	2.0	6.0	4.5	5.0	15.5	12.0	13.5
21	4.5	3.0	3.5	2.5	2.0	2.0	7.0	5.0	6.0	15.5	13.0	14.0
22	4.0	3.0	3.5	3.0	1.5	2.0	7.0	5.0	6.0	16.0	14.0	15.0
23	5.5	2.5	3.5	3.0	1.5	2.5	7.0	6.0	6.5	16.5	13.5	14.5
24	4.0	2.5	3.5	4.0	2.0	3.0	8.0	6.0	7.0	15.5	12.0	13.5
25	5.0	2.0	3.0	3.0	2.5	2.5	7.0	6.5	6.5	14.0	11.5	12.5
26	5.5	2.5	3.5	4.0	2.5	3.0	7.5	7.0	7.0	13.5	11.5	12.5
27	6.0	2.5	3.5	3.5	3.0	3.0	7.5	6.0	7.0	16.5	11.5	14.0
28	6.0	2.5	3.5	4.0	2.5	3.0	8.0	6.5	7.0	19.5	16.5	18.0
29	6.0	2.5	4.0	4.0	2.5	3.0	8.0	6.0	7.0	18.0	16.5	17.5
30	---	---	---	4.0	3.0	3.0	9.5	6.0	7.5	17.0	15.5	16.5
31	---	---	---	3.5	3.0	3.0	---	---	---	16.0	15.5	15.5
MONTH	6.0	1.5	3.1	6.0	1.0	2.8	9.5	2.5	4.8	19.5	6.5	12.9
	JUNE			JULY			AUGUST			SEPTEMBER		
1	16.5	15.0	15.5	9.0	6.0	7.5	13.5	8.0	10.0	9.5	7.0	7.5
2	16.0	15.5	15.5	8.5	6.0	7.0	16.5	7.5	10.5	9.5	7.0	7.5
3	16.5	15.5	16.0	9.0	6.5	7.5	11.5	6.5	8.5	9.5	7.0	8.0
4	17.0	15.5	16.0	8.5	6.0	7.0	10.0	7.0	8.0	9.0	7.0	8.0
5	16.0	15.0	15.5	8.5	6.5	7.5	9.5	7.0	8.0	9.0	7.0	8.0
6	15.5	15.0	15.0	8.0	6.5	7.0	9.5	6.5	8.0	10.5	7.0	8.0
7	16.0	14.5	15.0	8.5	6.5	7.5	10.0	6.5	8.0	10.5	7.5	8.5
8	16.5	12.0	14.0	9.0	6.5	7.5	11.0	6.5	8.5	8.5	7.0	7.5
9	13.0	10.5	11.5	7.0	6.0	6.5	12.5	6.5	8.5	10.5	8.0	9.0
10	10.5	9.0	10.0	8.5	6.5	7.0	12.5	7.0	9.0	11.5	10.0	11.0
11	10.0	7.5	9.0	9.0	6.5	7.5	11.0	7.0	8.5	10.5	8.0	9.5
12	10.0	6.0	7.5	8.0	6.5	7.0	9.0	7.0	8.0	8.5	7.5	8.0
13	10.0	5.5	7.5	8.5	6.5	7.5	10.0	7.5	8.5	9.5	7.5	8.0
14	9.5	7.0	7.5	8.5	6.5	7.0	13.0	7.5	9.5	9.5	7.0	8.0
15	11.0	6.5	8.5	8.5	6.5	7.0	11.0	7.5	9.0	9.5	7.5	8.0
16	11.0	6.5	8.0	8.5	6.5	7.5	10.0	7.5	8.5	9.0	7.5	8.0
17	9.0	6.5	7.5	9.0	6.5	7.5	14.0	7.5	9.5	8.5	7.5	7.5
18	7.5	6.0	7.0	7.5	6.5	7.0	14.0	7.5	9.5	21.0	8.5	18.5
19	9.0	6.0	7.5	9.0	6.5	7.5	9.0	6.5	8.0	20.5	19.5	20.0
20	9.0	5.5	7.5	9.0	6.5	7.5	10.0	7.0	8.0	19.5	19.0	19.5
21	11.0	6.0	8.0	9.0	6.5	7.5	7.5	6.5	7.0	---	---	---
22	8.0	6.5	7.0	9.0	6.5	7.5	8.5	6.5	7.0	---	---	---
23	10.5	6.0	7.5	8.5	6.5	7.0	9.0	7.0	8.0	---	---	---
24	11.0	6.0	8.0	9.5	6.5	7.5	10.5	8.0	9.0	---	---	---
25	8.5	6.5	7.0	9.5	6.5	7.5	9.0	7.5	8.0	---	---	---
26	9.0	6.0	7.5	8.0	6.5	7.0	9.0	7.0	7.5	---	---	---
27	9.5	6.0	7.5	9.5	6.5	7.5	8.5	7.0	7.5	---	---	---
28	8.5	6.0	7.0	12.0	8.0	9.5	9.0	7.0	7.5	---	---	---
29	8.5	6.0	7.0	14.0	7.5	10.0	9.5	7.0	8.0	17.0	13.0	15.0
30	8.5	6.5	7.5	14.0	7.5	10.0	10.5	7.0	8.5	13.0	11.0	12.0
31	---	---	---	12.5	8.5	10.0	10.0	7.0	8.0	---	---	---
MONTH	17.0	5.5	9.8	14.0	6.0	7.6	16.5	6.5	8.4	---	---	---